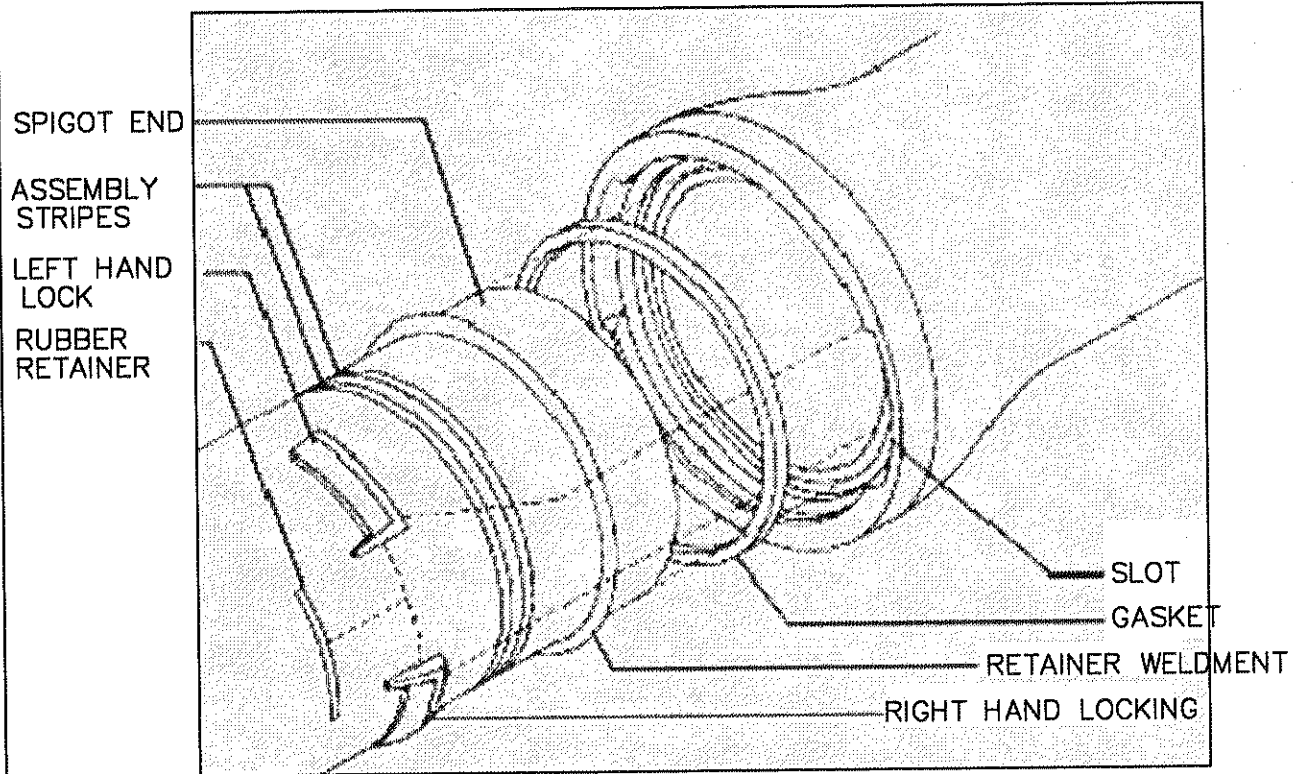
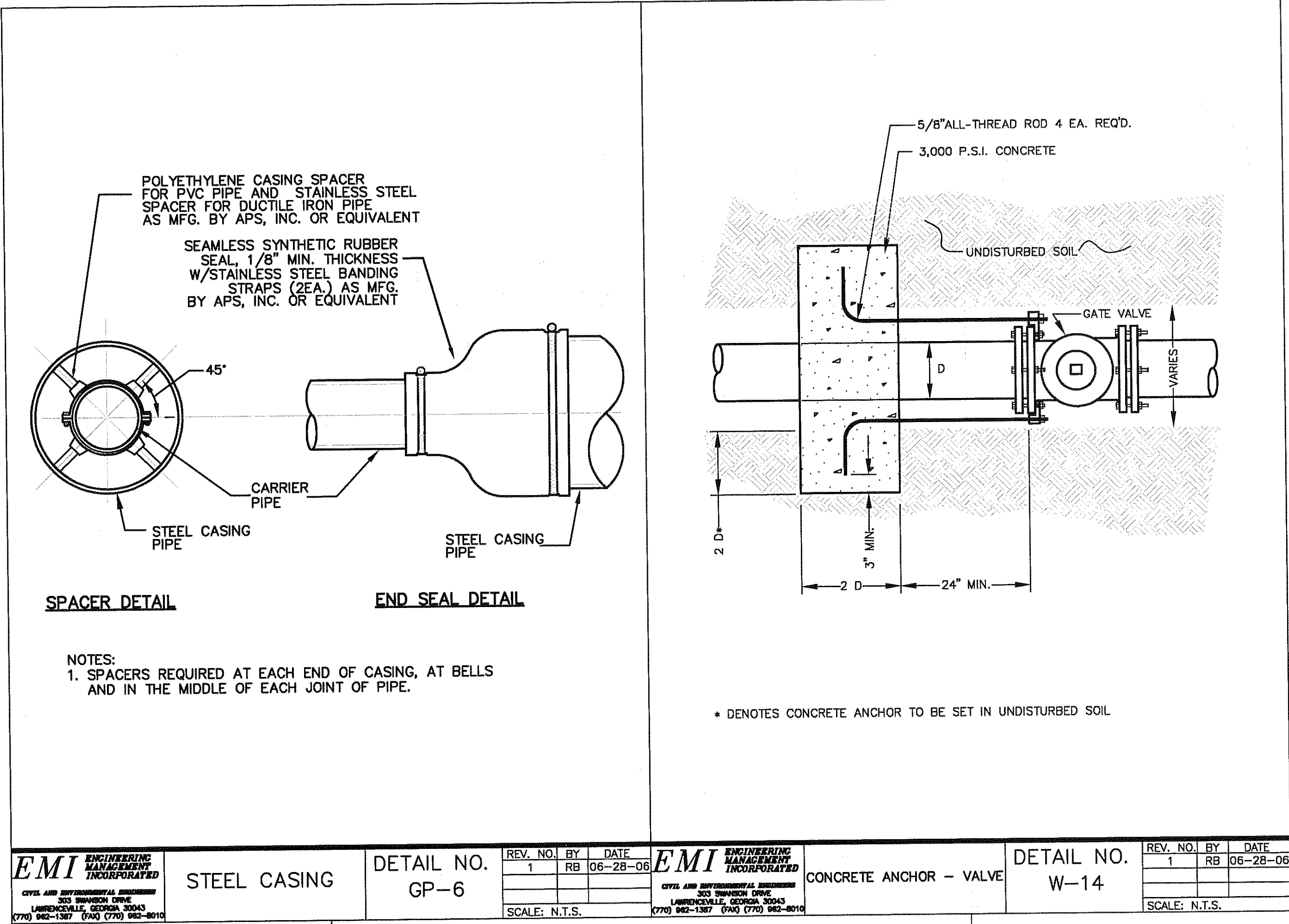
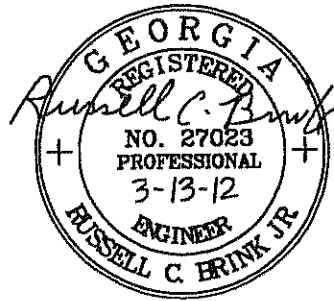


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REVISION		
DATE	NO.	DESCRIPTION
12/14/07	A	SUBMIT TO DOT FOR REVIEW
01/07/08	B	RESUBMIT TO DOT FOR REVIEW
01/21/08	C	REVISED AS PER DOT REVISIONS
02/11/08	D	RESUBMIT TO DOT FOR REVIEW
03/13/12	E	RESUBMIT TO DOT FOR REVIEW



- NOTES:
- When joint restraint for push-on joint pipe installation is required and indicated in the project plans and specifications, restrained push-on joint pipe and fittings utilizing Ductile Iron components shall be provided.
  - Restrained joint pipe shall be Ductile Iron manufactured in accordance with the requirements of ANSI/AWWA C151/A21.51. Push-on joints for such pipe shall be in accordance with ANSI/AWWA C111/A21.11 "Rubber-Gasket Joints for Ductile-Iron Pipe and Fittings." Pipe thickness shall be designed in accordance with ANSI/AWWA C150/A21.50 "Thickness Design of Ductile-Iron Pressure Pipe," and shall be based on laying conditions and internal pressures as stated in the project plans and specifications.
  - Restrained joint fittings and the restraining components shall be Ductile Iron in accordance with applicable requirements of ANSI/AWWA C110/A21.10 and/or C153/A21.53 with the exception of the manufacturer's proprietary design dimensions. Push-on joints for such fittings shall be in accordance with ANSI/AWWA C111/A21.11.
  - Joint separation is prevented by inserting Ductile Iron locking segments through a slot in the pipe or fitting bell. The locking segments engage a weldment or bead around the plain end of the pipe, and the joint is sealed with the manufacturer's gasket.
  - All pipe and locking segments shall be made of Ductile Iron.
  - Cement mortar lining and seal coating for pipe and fittings, where applicable, shall be in accordance with ANSI/AWWA C104/A21.4. Asphaltic outside coating shall be in accordance with ANSI/AWWA C151/A21.51 for pipe and ANSI/AWWA C110/A21.10 or ANSI/AWWA C153/A21.53 for fittings.
  - Restrained push-on joints for pipe and fittings shall be designed for a water working pressure of 350 psi.

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